

C E R T I F I E D

25X1

8 October 1965

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Subject: [redacted] Project [redacted]
Progress Report - 1-30 September 1965

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Gentlemen,

Enclosed is a copy of [redacted] Progress
Report on Project [redacted] for the period covered 1-30
September 1965. Also included is our Financial Report on
the above program.

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Very truly yours,

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LHB/de

Enc: (1) P.R.
(1) F.R.

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Declass Review by NIMA / DoD

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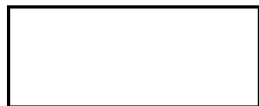
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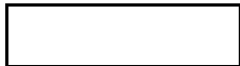
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PROGRESS REPORT

Period Covered: 1-30 September 1965

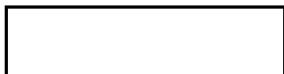
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Document No.: 

Dated: 8 October 1965

PROJECT STATUS

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All parts have been released for manufacture or procurement, however, approximately 20% of these have been put on hold in expectation of a design change authorization to incorporate power assist  The parts whose fabrication or procurement has been halted are those most likely to be changed with the addition of the power assist feature.

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An investigation was conducted to determine what could be done to reduce the 10 inch height without seriously affecting cost or delivery. It was concluded that the tilting base assembly was the only area in which a height saving could possibly be made. Design changes were made resulting in a reduction in height of approximately 3/8 of an inch. Included in this change is a change in the base plate to increase the margin of stability when the instrument is at maximum elevation. This change consists of the addition of two (2) small forward extensions on either edge of the base plate. They are attached to the base plate with screws and may be easily removed if desired.

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Some preliminary engineering on the anticipated power assisted drive has been performed. Particular emphasis has been placed on incorporating the power assist with a minimum increase in height.

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[redacted] 90% of all parts have been released for manufacture, or procurement. However [redacted] approximately 20% of these have been put on "hold" in expectation of a design change authorization incorporating the power assist [redacted] The parts being held are those most likely to be affected by the change.

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As a result of a discussion [redacted] a change has been made in the microscope mounting configuration to reduce the distance from the center of the microscope to its mounting post. This improved stability by reducing the cantilever effect.

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As a result of comments made [redacted] during his recent visit, an investigation is being conducted into a design change to reduce the friction in the X and Y carriages. A decision has not been made whether to incorporate these changes.

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A [redacted] Zoom 70mm was received on a three month loan from the customer. Its compatibility with the [redacted] design has been confirmed.

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Weight of [redacted] design was re-estimated at 250 pounds.

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PROJECTED WORK FOR OCTOBER

It is expected that a go-ahead on the power assisted drive feature will be received early in the month. Such authorization received, a full scale engineering and design effort will commence, and it is expected that each of the 3 or 4 power assist configurations will be breadboarded to some degree, and the most suitable determined. Those parts now on "hold" which will not be affected by the change will be released, and 30% of the design effort required to accomplish the change will be expended. This applies to all three designs.

SUMMARY OF CORRESPONDENCE
DURING REPORTING PERIOD

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A) A meeting

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on 9 September 1965.

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project was reviewed. The following points are deemed pertinent:

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1) Height

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Customer was very much concerned over 10 inch height of instrument. pointed out that the necessity for increasing height from 9 to 10 inches was communicated to the customer as early as June 7, 1965, and was discussed a number of times with customer's representatives since then.

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agreed to investigate again what height reduction is possible.

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2) Weight

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Customer expressed concern over estimated weight of 115 pounds. [redacted] agreed to investigate, but indicated that a substantial weight reduction was not possible.

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3) Illumination

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Operation of the cold cathode light source was demonstrated in [redacted] laboratory. Uniformity of brightness out to edges was within 10% to 1/8 of an inch from the edge. However, variation over the whole viewing surface was greater than 10%, closer to 15%. [redacted] indicated this was the best the vendor could do. Customer reserved comment on acceptability of this variation.

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Customer commented on 60 cycle hum produced by light grid [redacted] agreed to investigate this.

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4) Weight

Customer indicated that weight of [redacted] instruments could be a problem if it exceeds 300 pounds because of limitations in existing handling equipment [redacted] agreed to re-estimate weight.

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5) Microscope Adaptors

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[redacted] indicated it would send a letter with drawings defining microscope mounts to clear up any uncertainties.

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6) X-Y Carriages

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Customer's representative was concerned over [] estimate of maximum force required to translate X carriage (4 pounds) [] indicated that this was inherent in the design as proposed, but would investigate what might be done to reduce it.

7) Film Flatness

It was explained to the customer's representative that the proposed technique of applying tension to the film to flatten it would not result in a degree of flatness approaching that obtainable with vacuum or an overlay platen. [] also indicated that this fact had been discussed with the customer's representatives in the past.

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8) Microscopes

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[] requested that the customer supply, on consignment, one (1) each of the three microscopes to be used on the [] designs. Customer indicated this would be possible [] and perhaps [] but [] was not available for consignment. He indicated that a one-day inspection [] might be possible during a future visit.

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9) Project Financial Status

Customers' representative indicated that financial status reports should accompany each progress report. [] [] agreed this would be done. Customer's representative was given report for period ending July 31, 1965.

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10) [] Proposal

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Customer's representative indicated there was a very high probability [] would get authorization to proceed on the proposed design change to incorporate the motorized drive. [] indicated that work in certain areas had been halted to minimize the cost of scraping or reworking parts that may be changed. [] indicated that delivery delay would be day for day.

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B) Letter 9/16/65 []

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Drawings were sent showing mounting of microscopes

C) Telecon 9/17/65 []

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(Customer's Representative)

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1) [] requested microscopes.

2) [] requested permission to extend part of base plate to obtain better balance when in elevated position. Customer's representative agreed on condition that extension could be easily removed at later date if it were found to be unnecessary.

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3) Customer's representative indicated height of [] was also very important. He was told height had not been increased over that stated in customer's original Design Objectives.

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4) [] indicated that height [] could be reduced by 3/8 inch.

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D) Telecon 9/21/65 (approximate date) [redacted]

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[redacted] Customer's Representative

Customer's representative indicated there was some discrepancy between microscope adaptors we planned to supply and customer's microscopes. Customer's representative said he would send drawings of modified microscopes he was planning to use.

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E) Drawings of Algeet Adaptor

[redacted] received from customer's representative 9/27/65.

Enclosure:

Financial Status Report